

1 Amendments to the Claims:

2 This listing of claims will replace all prior versions, and
3 listings, of claims in the application using (Original) (Currently
4 Amended) (New) (Canceled) (Previously Presented) nomenclature, as
5 recited in the below listing of claims.

6
7 1. (Currently Amended) A receiver for receiving a channel signal
8 having a modulated carrier for communicating first messages using a
9 first spreading code and communicating second messages using a
10 second spreading code, the receiver comprising,

11 a first replica spreading code generator providing a first
12 replica spreading code,

13 a second replica spreading code generator providing a second
14 replica spreading code, the first replica spreading code and the
15 second replica spreading code are partially correlated,

16 a first despreader for despreading the channel signal into a
17 first despread signal,

18 a second despreader for despreading the channel signal into a
19 second despread signal,

20 a first carrier demodulator for carrier demodulating the first
21 despread signal into first quadrature signals,

22 a ~~first~~ second carrier demodulator for carrier demodulating the
23 second despread signal into second quadrature signals,

24 a first power detector for detecting the power level of the
25 first quadrature signal for providing a first signal,

26 a second power detector for detecting the power level of the
27 second quadrature signal for providing a ~~first~~ second power signal,

1 a comparator for determining which one of the first power signal
2 or the second power signal is present, and

3 a selector for selecting and providing the first quadrature
4 signal when the first power signal is present or for selecting and
5 providing the second quadrature signal when the second power signal
6 is present, the first quadrature signal communicating the first
7 message when the first power signal is present, the second
8 quadrature signal communicating the second message when the second
9 power signal is present.

10
11 2. (Currently Amended) A communication system for broadcasting a
12 channel signal, the system comprising,

13 a detection receiver for receiving a channel signal having a
14 modulated carrier for communicating first messages using a first
15 spreading code and communicating second messages using a second
16 spreading code, the detection receiver comprising:

17 a first replica spreading code generator providing a first
18 replica spreading code;

19 a second replica spreading code generator providing a second
20 replica spreading code; the first replica spreading code and the
21 second replica spreading code are partially correlated,

22 a first despreader for despreading the channel signal into a
23 first despread signal;

24 a second despreader for despreading the channel signal into a
25 second despread signal;

26 a first carrier demodulator for carrier demodulating the first
27 despread signal into first quadrature signals;

1 a ~~first~~ second carrier demodulator for carrier demodulating
2 the second despread signal into second quadrature signals;

3 a first power detector for detecting the power level of the
4 first quadrature signal for providing a first power signal₁;

5 a second power detector for detecting the power level of the
6 second quadrature signal for providing a ~~first~~ second power
7 signal₂;

8 a comparator for determining which one of the first power
9 signal or the second power signal is present; and

10 a selector for selecting and providing the first quadrature
11 signal when the first power signal is present or for selecting and
12 providing the second quadrature signal when the second power signal
13 is present, the first quadrature signal communicating the first
14 message when the first power signal is present, the second
15 quadrature signal communicating the second message when the second
16 power signal is present,

17 the system further comprising,

18 a data source for providing the first message during a first
19 time period when the first power signal is present and for
20 providing the second message during a second time period when the
21 second power signal is present₁;

22 a code generator for generating an original first spreading
23 code and an original second spreading code₂;

24 a spreader for spectrum spreading the first message by the
25 original first spreading code and for spectrum spreading the second
26 message by the original second spreading code, the first replica
27 spreading code being a replica of the original first spreading
28 code, the second replica spreading code being a replica of the

original second spreading code, the first message and second message are spectrum spread into first and second spread spectrum signals, and

a transmitter for broadcasting the channel signal by modulating a carrier by the first spread spectrum signal during the first time period and by the second spread spectrum signal during the second time period.

3. (Currently Amended) ~~The system of claim 2 for selectively communicating the second message, the system further comprising,~~ A communication system for broadcasting a channel signal, the system comprising,

a detection receiver for receiving a channel signal having a modulated carrier for communicating first messages using a first spreading code and communicating second messages using a second spreading code, the detection receiver comprising:

a first replica spreading code generator providing a first replica spreading code;

a second replica spreading code generator providing a second replica spreading code;

a first despreader for despreading the channel signal into a first despread signal;

a second despreader for despreading the channel signal into a second despread signal;

a first carrier demodulator for carrier demodulating the first despread signal into first quadrature signals;

a second carrier demodulator for carrier demodulating the second despread signal into second quadrature signals;

1 a first power detector for detecting the power level of the
2 first quadrature signal for providing a first power signal;
3 a second power detector for detecting the power level of the
4 second quadrature signal for providing a second power signal;
5 a comparator for determining which one of the first power
6 signal or the second power signal is present; and
7 a selector for selecting and providing the first quadrature
8 signal when the first power signal is present or for selecting and
9 providing the second quadrature signal when the second power signal
10 is present, the first quadrature signal communicating the first
11 message when the first power signal is present, the second
12 quadrature signal communicating the second message when the second
13 power signal is present,
14 the system further comprising,
15 a data source for providing the first message during a first
16 time period when the first power signal is present and for
17 providing the second message during a second time period when the
18 second power signal is present,
19 a code generator for generating an original first spreading
20 code and an original second spreading code,
21 a spreader for spectrum spreading the first message by the
22 original first spreading code and for spectrum spreading the second
23 message by the original second spreading code, the first replica
24 spreading code being a replica of the original first spreading
25 code, the second replica spreading code being a replica of the
26 original second spreading code, the first message and second
27 message are spectrum spread into first and second spread spectrum
28 signals,

1 a transmitter for broadcasting the channel signal by
2 modulating a carrier by the first spread spectrum signal during the
3 first time period and by the second spread spectrum signal during
4 the second time period, and

5 a first code receiver for receiving the first message during
6 the first time period, the system communicating to the detection
7 receiver and to the first code receiver during the first time
8 period, the system selectively communicating to the detection
9 receiver and not the first code receiver during the second time
10 period.

11
12 4. The system of claim 3 further comprising,

13 a plurality of detection receivers receiving the first and
14 second messages.

15
16 5. The system of claim 3 further comprising

17 a plurality of first code receiver for receiving the first
18 messages.

19
20 6. The system of claim 4 3 wherein,

21 the first and second codes are partially correlated.
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